

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/977,297	10/16/2001	Fred Buchali	Q66335	2046
23373 7590 06/11/2007 SUGHRUE MION, PLLC		EXAMINER		
2100 PENNSYLVANIA AVENUE, N.W.			CURS, NATHAN M	
SUITE 800 WASHINGTON, DC 20037			ART UNIT	PAPER NUMBER
			2613	
		•		· · · · · · · · · · · · · · · · · · ·
	,		MAIL DATE	DELIVERY MODE
			06/11/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Annication No.	A lin 4(-)				
Office Action Summary		Application No.	Applicant(s)				
		09/977,297	BUCHALI, FRED				
		Examiner	Art Unit				
		Nathan Curs	2613				
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address				
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE in a solid part of the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. In period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status							
1)🖂	Responsive to communication(s) filed on <u>14 March 2007</u> .						
2a)⊠	This action is FINAL . 2b) This action is non-final.						
3) 🗌	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
5)⊠ 6)⊠ 7)⊠	Claim(s) <u>1-7</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdray Claim(s) <u>1,2 and 7</u> is/are allowed. Claim(s) <u>3 and 6</u> is/are rejected. Claim(s) <u>4 and 5</u> is/are objected to. Claim(s) are subject to restriction and/or						
Applicati	on Papers						
10) 🖾	The specification is objected to by the Examine The drawing(s) filed on <u>01 July 2005</u> is/are: a) [Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	☑ accepted or b)☐ objected to be drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to: See 37 CFR 1.121(d).				
Priority u	ınder 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
2) Notic 3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Do 5) Notice of Informal F 6) Other:	ate				

DETAILED ACTION

1. Claim 6 is objected to because of the following informalities:

As amended, claim 6 in lines 3-6 recites "generating... first and second data signals with pseudo-errors... to generate first and second data signals with pseudo-errors". The redundancy is improper.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 3 and 6 are rejected under 35 U.S.C. 102(b) as being anticipated by Sakamoto et al. ("Sakamoto") (US Patent No. 5736875).

Regarding claim 3, Sakamoto discloses a high-speed eye monitor (fig. 5 and col. 5, line 65 to col. 6, line 31) comprising: first and second threshold-value decision elements for deciding a level of a data signal based on first and second threshold values which are set close to vertices of an eye opening of an eye diagram (fig. 5, elements 12 and 13); first and second signal comparators for determining pseudo-errors by comparing decided signals output by the threshold-value decision elements with a correct signal (fig. 5, elements 17 and 17); first and second integrators for integrating the pseudo-errors output by the first and second signal comparators to generate first and second internal control variables (fig. 5, elements 15 and 16); and first and second regulators which correct the first and second threshold values based on

Application/Control Number: 09/977,297 Page 3

Art Unit: 2613

comparisons between the first and second internal control variables and first and second setpoint values, respectively (fig. 5, elements 22 and 23), wherein the first and second threshold-value decision elements receive the first and second threshold values from the first and second regulators (fig. 5, elements 22, 23, 24, 14, 20 and 21).

Regarding claim 6, Sakamoto discloses a method for measuring the eye opening of an eye diagram, the method comprising: generating, at first and second threshold-value decision elements, first and second data signals with pseudo-errors by determining a level of a data signal based on first and second threshold values which correspond approximately to vertices of the eye opening to generate first and second data signals with pseudo-errors (fig. 5, elements 12 and 13 and col. 5, line 65 to col. 6, line 31); detecting first and second pseudo-errors by comparing the first and second data signals with a correct signal (fig. 5, elements 17 and 17 and col. 5, line 65 to col. 6, line 31); integrating the first and second pseudo-errors (fig. 5, elements 15 and 16 and col. 5, line 65 to col. 6, line 31); comparing the integrated first and second pseudo-errors with first and second setpoint values, respectively, and correcting, at first and second regulators, the first and second threshold values based on the comparisons between the integrated first and second pseudo-errors and the first and second setpoint values (fig. 5, elements 22 and 23 and col. 5, line 65 to col. 6, line 31), wherein the first and second thresholdvalue decision elements receive the first and second threshold values from the first and second regulators (fig. 5, elements 22, 23, 24, 14, 20 and 21); and generating a differential signal of the corrected first and second threshold values as a measurement value of the eye opening (fig. 5, element 24).

Allowable Subject Matter

4. Claims 1, 2 and 7 are allowed.

Art Unit: 2613

5. Claims 4 and 5 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

6. Applicant's arguments filed 14 March 2007 have been fully considered but they are not persuasive.

The applicant has added limitations to claims 3 and 6 and argued that these serve to overcome Sakamoto. However, the language "the first and second threshold-value decision elements receive the first and second threshold values from the first and second regulators" is fairly broad with respect to the handoff between the elements and does not exclude the possibility of intermediary elements. Therefore, the added language is not sufficient to overcome Sakamoto.

Conclusion

7. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

Application/Control Number: 09/977,297

Art Unit: 2613

however, will the statutory period for reply expire later than SIX MONTHS from the mailing date

of this final action.

8. Any inquiry concerning this communication from the examiner should be directed to N.

Curs whose telephone number is (571) 272-3028. The examiner can normally be reached on

M-F (from 9 AM to 5 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Jason Chan, can be reached at (571) 272-3022. The fax phone number for the

organization where this application or proceeding is assigned is (571) 273-8300. Any inquiry of

a general nature or relating to the status of this application or proceeding should be directed to

the receptionist whose telephone number is (800) 786-9199.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pairdirect.uspto.gov. Should you have questions on access to the Private

PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

LECHNOLOGY CENTER 2600 SUPERVISORY PATENT EXAMINER TYPON CHAN

SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600

Page 5